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Brown, Sherri M.
Liu, Jingdong

<120> Nucleic Acid Molecules and Other Molecules Associated
with the Gibberellin Pathway

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aagtgaaatc aaggagtgcc tagaatacgt acacaggtac ttgggtgacc aaaggcttgc 180
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ctggactgag gacgggatct gctgggagag gaactccgac gtgaaggagg tggacgacac 180
ggccatggct ttccgcctgc tacggctgca cggatacagc gtctcgccag atgtgttcaa 240
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ggggatgtac a 311

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cgtcagcaag tttagcgggg gagtgccctt tacctaccct gtggatctgt tcgagcactt 180
atgggtagtg gacaggatag agcggctggg catagggagg cacttcacag gtgaaatcaa 240
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agcatcgtga aaagctgtta ctacgtgct 210

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gagccatccc tgctagctat ctatgcaagg agagacgcaa agctcgcaag aatccctaaa 180
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gactgg 246

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tttccagaga caatgcaagc tgcagtggca tggcctcaga aaatggggcca gcaggagaaa 180
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 cagcatcttt gagccagaca gagcgacaga gcgtctggga tgggct 286

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 <213> Zea mays

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 tggatatagaa ccacaatata tggttcatga taggcaaaca tacttacttt tagttcaggt 180
 tattgagatt tgtgctggac gaattggtga ggctgtgtca atgataaaca acaaggataa 240
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 gtcccaggat actatgaaga attaagccag aattaaattg gatttaaaaa ggacatccaa 360
 ttgaatatgc aagagcttgc tcaatctctc cttttgagat gtgatgagaa aactagcaat 420
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 <222> (206), (221)
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 agcacatctg ggttgtggat cggttggagc gactcgggat ctcccgctac ttccaacgag 300
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 cctccaagca tacggcgtga cgtctaacag cacgctgcga tcctacttct tagccgcagc 240
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 tttttctgct ttacggggca gaccacacaa gcagtgcagc gaatgtttaa tctgtatagg 240
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 aaatttttga aggagaagag agcagcaaatt gagcttgtaa ataaat 346

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 agcgagtctg gcagcagctc gtcagtaccg gctgtgtatc cacggaaggt gcacagccag 240
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<211> 275
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 <213> Zea mays

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 <212> DNA
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 ttggagagga ctgcatttca tcgggaggaa tttctctggt gctatggacc agcagttcac 180
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 gttagaatta cctgtagaca aactgatgt 269

<210> 17
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 <213> Zea mays

 <400> 17

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 ttatcccaga aggattogga aatatgctgg actgggatca agttatgaag tttcagagga 180
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<213> Zea mays

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 tctatgtcca tagaagccgc taaaaaggca atgcagaagt ccatagacgt gtctaggaga 180
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<222> (411)

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 cagagacttc aattcctctc aacttactta ccagcaagaa cttcaacatc ttgaaagttg 180
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 attgtccgct gctggctgca tgtactcccc tgaactgtct gaagctcgca ctttgtgtgc 300
 aaaaaatggt ggcgtcataa ctattgttga tgacttcttt gatgttggag gatcaaaaga 360
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 ttactc 426

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<211> 441

<212> DNA

<213> Zea mays

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ggctgtcctg gacatgatat a 441

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<211> 258
<212> DNA
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gaagtttata gtactccaaa gagtttaacc catcaagatg ggaggggttat acaccgagag 180
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agetggagat ctccgtct 258

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<211> 263
<212> DNA
<213> Zea mays

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gcacatgagt cctgaagttt atcgtgactc caaagagttt aacccatcaa gatgggaggg 120
ttatacaccg agagccggca cattccttcc ttctggactt ggtaccagat tctgccctgg 180
gaacgatctt gcaaagctgg agatctccgt ctctctccac catttctcc ttggttacia 240
gtcacagagg acaaatacta act 263

<210> 26
<211> 358
<212> DNA
<213> Zea mays

<400> 26
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accttccggg aggccgtgga ggacgtggag taccaagggt acctgatccc caagggtctg 120

aaggtgatgc ccctgttccg gaacatccac cacagccccg accacttccc ctgcccggag 180
aagttcgacc cctcccgata cgagactgct cccaagccca acaogttcct gccgttcggc 240
aacgggaccc actcgtgccc gggcaacgag ctcgccaagc tggagatgct cgtgctcttc 300
caccacctcg ccaccaagta caggtggtcc actccaagtc cgagagcggc gtgcagtt 358

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<212> DNA
<213> Zea mays

<400> 27

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ttccaggatc cacacaagtt cgacccttct agattccagg tggcgccgcg tccgagcacg 180
ttcctgcogt ttgggcacgg cgtgcacgcg tgccccggga acgagctggc caagctcgag 240
atgctogtcc tcatccacca cctggtcacc ggctacaggt gcgtccatct cctctcagat 300
cctctccata tattccccgc ttgtcctata gcttgtggac caggatgaca catggctggc 360
tgctgccgct ctccatgggg ctccggctct ctctctccgt gaatgctcca aatctcctcc 420
tgtctgtatg ta 432

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<212> DNA
<213> Glycine max

<400> 28

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ttggaagaac tggaatgtac aagaccatga tgtttggaat tccaagtata attgtgacaa 180
cacctgaaat atgcaaaagg gtgcttacag atgacgataa attcacacct ggttggcctc 240
aatctactat agagctcatt ggaaagaggt catttatttc aatgtc 286

<210> 29
<211> 228
<212> DNA
<213> Glycine max

<400> 29

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 atccaaattg ggtgtgaagc agtactcttt gccaccaggt gacatgggat ggccttcat 180
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<210> 30

<211> 265

<212> DNA

<213> Glycine max

<400> 30

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 cctaagatct atcctcaaga atgtaaattg gtggctctat gaatccaaat tgggtgtgaa 180
 gcagtactct ttgccaccag gtgacatggg atggcccttc attggcaaca tgtggtcctt 240
 tctcagtgtt ttcaagtcca aggac 265

<210> 31

<211> 266

<212> DNA

<213> Glycine max

<400> 31

gtgatgataa tgatgatgat gatgtgttcc atgtggatgt gggttgtcct tgtggccatt 60
 gctgggtgcc ttttagtcct aagatctatc ctcaagaatg taaattgggtg gctctatgaa 120
 tccaaattgg gtgtgaagca gtactctttg ccaccaggtg acatgggatg gcccttcatt 180
 ggcaacatgt ggtcctttct cagtgccttc aagtccaagg accctattcc ttcattcct 240
 cctttgtctc cagatttgga agaact 266

<210> 32

<211> 243

<212> DNA

<213> Glycine max

<400> 32

gttagagcca tgtgtattaa tattcccggg tttgcatacc acaaagcatt caaggcaagg 60
 aaaaatctag tggccatatt tcaatctatt gtggatgaga gaagaaactt aaggaaggga 120

[illegible]

tacggctgcg	agaagacgac	agaagggcac	ttaatcatgg	agttagagcc	atgtgtatta	60
atattcccg	atttgcatac	cacaaagcat	tcaaggcaag	gaaaaatcta	gtggccatat	120
ttcaatctat	tgtggacgag	agaagaaact	taaggaaggg	ctatctgcct	ggaaaagcca	180
nagatatgat	ggatgctctg	atagatcttg	aagatgatga	aagaaagttg	agtgataagg	240
acatcattga	catcatgttg	atgtacttga	atgcggggcca	c		281

atccaaagga atttaaccct aatagatgga ataaagagca caaggctgga gaattccttc	60
cctttggagg aggaagtaga ttgtgtcctg ggaatgatct tgccaagatg gaaatagcag	120
tttttcttca ccatttcctt ctgaattacc gatttgaaca gcataatcct aattgccttg	180
tgagatactt gccacataca aggccaatgg acaattgctt gggaagggtc aggaaatgtc	240
catctacaac	250

17

ctcctgtccg ccatggtggc ggcggcctcc cgcgatccac gacacgaagg cgtccatggt 120
gcccgcgctc gaccggtagt gcttctgctt gaactcgagg aactcgcgcc acgtgaagtc 180
cgggaacgcg cgcggggcggc ccgcctgctt gttctcctgg aggagcgcg cggcgggcg 240
gacgacgcgg tccagcggcg ggttgaggaa gaaggcgagc gaccggcggg cgcgctcgcc 300
gtcaccacg gcgcggtgca ngcagctggt gtgacgccg tcggtgagcg cggcgaaggt 360
gtcgccgatg ttgaccacga acgcggtccc gcggggccgn accgggcgcc acggtccgcc 420
gcc 423

<210> 41
<211> 284
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (19)...(20),(22)...(23),(30)...(31),(33),(40),(47),(56),
(59),(61),(67),(70),(84),(105),(156),(159),(238),(283)
<223> unsure at all n locations

<400> 41
tagtaacaca agagtatann cnngagatgn ngnagctgtn ctaaaanatt tcaganctna 60
nagcttngan cttaggcctt gaancaaaga ggtttgaaga atttntcat cacagaccaa 120
actagcttta ttcgactcaa ccactatcct ccatgncnc atcctgacct tggttttgga 180
cgtcggtoga cacaaggacc ctggtgcctt aaccattctt gcacaggatg aggttgngg 240
acttgaagtg agacgtaaag cagatcaaga gtggataaga gtnc 284

<210> 42
<211> 336
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (113)
<223> unsure at all n locations

<400> 42
ctttcatcct ctctctcgaa cttatttatt tctctctggt tctctgtttt gctctgcttc 60
tcaaaacata accttttatt attatagtat ttactatta taaactaatt ttncattgct 120
aatgcaatgg ccatagagtg cataacaaat atacaatcaa tgtctcaacc acaaaagcac 180

caccaagagc acaaagaaga tgaagcacca ttggtttttg atgcctcact tctcaggcac 240
 caactcaacc taccaaaaaca gttcatttgg cctgatgagg aaaagccatg catgaatgtg 300
 cctgagcttg gtgtccctct cattgacttg gggggg 336

<210> 43
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 43
 gtcgagggcc tccaagtctt tgttgatgga agatgggtact ctgtcgctcc taaagaagat 60
 gcttttcgttg tcaatatttg cgacacattt atggctctat cgaatgggat gttcaagagt 120
 tgcttgcata gagcagttgt aaacacaaaa ttgtgagaaa atcacttgct ttcttctat 180
 gtccaaatag agacaaagtg gtcacccctc caaaagatct aatcagctac gaaaattcaa 240
 gaacataccc agatttcaca tggccaagcc ttcttga 277

<210> 44
 <211> 242
 <212> DNA
 <213> Glycine max

<400> 44
 acttgaagtg ctttctctca gcagatccac aagctttgtc aacagtttgt gctgaattga 60
 gtgaggcatg caagaagcat ggcttcttcc ttgttgtaaa ccatggagt gatagcaagc 120
 tcatagctca agctcataag ctcatagatg atttcttctg catgcaactc tcacagaagc 180
 agaaggctca gagaaagatt ggagaacatt gtggctatgc taatagcttc attggaagat 240
 tc 242

<210> 45
 <211> 257
 <212> DNA
 <213> Glycine max

<400> 45
 ggatggacca acaccaaaagt ctgagatcaa gccttgaatc ttttgcaaca agaatgttcc 60
 cccttgctga aagcgtggca gaagtactag cctacaaatt gaatacgaac tccaactatt 120
 tccgtgaaaa ttgcttgcca aagagtctgt acattcgact gaatagatat cctccatgcc 180

ctatatcgtc aaaggtgcat ggctgttgc ctcacagtga tacaagtttt cttaccatcg 240
tacatcagga ccaggtt 257

<210> 46
<211> 243
<212> DNA
<213> Glycine max

<400> 46

gtaatttggg aggggttacc aggactattg tgatgccatg agcaatcttt ctttggggat 60
aatggaactt ttgggaatga gtcttgaggt tggtaaagca tgtttttagag agtctttgaa 120
gagaataact caataatgag gctcaattac taccctcctt gtcaaaagcc tgacctcact 180
ttgggcactg gacctcactg tgacccaaca tctttgacca ttcttcacca agaccaagtg 240
gga 243

<210> 47
<211> 229
<212> DNA
<213> Glycine max

<400> 47

tgtggagcac aagggttgtg caaataacaa aatggaaaga tactccatag catatttcct 60
atgtccttct tacagtactg tcataaacgg ctgcaaagga ccttctgttt ataggaagtt 120
cacgtttgga gaatacagac accaaattca agaagatgct aagaaaatag gacacaaaat 180
tggaactatcg aagttttctac tttaagatac atgcgcacat tgggataaa 229

<210> 48
<211> 263
<212> DNA
<213> Glycine max

<400> 48

atagagttta taacaaatat acaatcgatg tctcaaccac aaaagcacca ccaatagcac 60
attgaagatg aagcaccatt ggtttttgat gcctcacttc tcaggcacca actcaaccta 120
ccaaaacagt tcattttggcc tgatgaggaa aagccatgca tgaatgtgcc tgagcttggt 180
gtccctctca ttgacttggg ggggttcctc tctggtgacc ctgttgcaac aatggaggct 240
gcaaggatag ttggtgaggc atg 263

<210> 49
 <211> 255
 <212> DNA
 <213> Glycine max

<400> 49

tacggctgcg agaagacgac agaggggacc ttcatggtat gttactatgt taattattct 60
 tgactttcat tcatttggtt ttcttaccaa accaaaccaa acagtgagct tgaatttgga 120
 ttcataatga tgattccagt gttgatgtaa aacatgtttt atttttttcg tattgattag 180
 gctctttcga atgggagata caagagttgc ttgcataggg cagtgggtgaa tagccagaca 240
 acaagaaaat ctctt 255

<210> 50
 <211> 235
 <212> DNA
 <213> Glycine max

<400> 50

gctggttgag attatagctc tgagcttagg ccttgaggca aagaggtttg aagagttttt 60
 catcaaagat caaactagct ttattcgact caaccactat cctccatgcc cttcccctca 120
 tctagctctt ggtggttggtc gacacaagga cattggagcc ttaaccattc ttgcacaaga 180
 tgatggttga ggacttgaag tcaaacgcaa agcagatcaa gattggataa gattg 235

<210> 51
 <211> 246
 <212> DNA
 <213> Glycine max

<400> 51

gctggttgag attatagctc tgagcttagg ccttgaggca aagaggtttg aagagttttt 60
 catcaaagat caaactagct ttattcgact caaccactat cctccatgcc cttcccctca 120
 tctagctctt ggtggttggtc gacacaagga cattggagcc ttaaccattc ttgcacaaga 180
 tgatggttga ggacttgaag tcaaacgcaa agcagatcaa gatggataag agtgaaacct 240
 acacca 246

<210> 52
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 52
 gtgtgttcca agaatactgt gaagccatga gcaaactctc tcttgggata atggagcttc 60
 tggggatgag cctaggagtt ggcaggggaat gtttcagaga tttcttcgaa ggaaatgagt 120
 cggttatgag gttgaattac taccacccat gccaaaaacc tgagttagct ttaggaactg 180
 gacctcattg tgacctaca tccctaacca ttctccacca agatcaagtc gaggcctcca 240
 agtctttggt gatggaagat ggtactctgt cg 272

<210> 53
 <211> 256
 <212> DNA
 <213> Glycine max

<400> 53
 ctgtgttcca agaatactgt gaagccatga gcaaactctc tcttgggata atggagcttc 60
 tggggatgag cctaggagtt ggcaggggaat gtttcagaga tttcttcgaa ggcaatgagt 120
 cggttatgag gttgaattac taccacccat gccaaaaacc tgagttagct ttaggaactg 180
 gacctcattg tgacctaca tccctaacca ttctacacca agatcaagtc agggcctcca 240
 aatctttggt gatgga 256

<210> 54
 <211> 142
 <212> DNA
 <213> Glycine max

<400> 54
 gtgtgttcca agaatactgt gaagccatga gcaaactctc tcttgggata atggagcttc 60
 tggggatgag cctaggagtt ggcaggggaat gtttcagaga tttcttcgaa ggaaatgagt 120
 cggttatgag gttgaattac ta 142

<210> 55
 <211> 235
 <212> DNA
 <213> Glycine max

<400> 55
 cccaaagacc cactaatagt aacaattatg ctccaaagac caattcctct caaattgggtc 60
 atcataagaa caataccacc aacagcaaca tcccagtgat tgacatgaag cacatctacg 120
 gtggtgacga gggaaagagg gctgagacgc tccggctcgt gtcggaggcg tgccaagaat 180

<210> 59
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 59

ggtgcgaatc acaacactgc acaaggatta gggtttacat ttgggaggta gcacgagagc 60
 agtaggtgaa gcgtgcattc tcaacagttg atctctctcc tttcctgaga gaggatgacg 120
 atggataacc gagagccata gatgcaatca cccaagtctg gtctgcatat ggcagcttcc 180
 atattgtgaa ccatggagta tcccttgatt tgggtaaaga ggccatgcag ctatctaaga 240
 ccttgtttag attactcgga tg 262

<210> 60
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 60

gtgcgaacca caacactgca caaagattag ggtttacatt tgggaggaag caagaaagag 60
 atgggtgagg cgtgcattcc aacagttgat ctctctcctt tcctgagaga ggatgaagat 120
 ggaaaaaaga gagccataga agcaatcacc caagcctggt ctgaatatgg cttcttccaa 180
 attgtgaacc atggagtttc cctgatttgg ttaaagaggc catgcagcaa tctaagacct 240
 tttttgatta ctctgatgaa gaaaagagca aga 273

<210> 61
 <211> 276
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (2)
 <223> unsure at all n locations

<400> 61

gntcacactg attacggttt attgacatta cttaatcaag atgacgatgt aaacgcactt 60
 caggtgagaa acctgtctgg tgaatggata acagcacctc cagttcctgg gacatttgta 120
 tgcaacattg gtgacatgct aaagatttac tccaatgggt tgtacgagtc cactttgcat 180
 cgggtgataa acaacaactc aaaatataga gtcagtgtag tatactttta tgagacaaac 240

ttcgatactg cagtagagcc attggacaca cataaa

276

<210> 62
 <211> 353
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (213), (215), (333), (342), (346), (352)
 <223> unsure at all n locations

<400> 62

ccacccttct cacaatcctt taccaaaaca acataagcgg gttgcagggt caccgaaaag 60
 gcgtcgggtg ggtgacggtg ccaccactct ccggcggact tgtgatcaat gtaggcgacc 120
 tcttccacat attgtcgaac gggttgtacc gagtgtgctc caccgggtct tagtgaaccg 180
 gatcagcgaa ggctttcagt tgcgtattta tgnncgcccc tccaaatgtg gagatatgtc 240
 cacatgcgaa ttagtggggc caaataagcc tcccctttat aaggcagtga cttggatgag 300
 taccttggga caaagcaaag catttaacaa gntctcact gntcgntttg tnc 353

<210> 63
 <211> 256
 <212> DNA
 <213> Glycine max

<400> 63

acaagcacc tgacttaaac tccctacaag aactccccga gtcttacact tggacacacc 60
 atagccatga tgatcatact cctgcagctt ccaacgagag tgtccccgtt attgatctca 120
 acgacccaaa tgcttcaaag ttgatacacc atgcatgcat aacttgggga gcgtaccaag 180
 tggatgaacca tgccataccc atgagcctcc tccaagacat tcaatggggt ggggagacat 240
 cttctctctc cettga 256

<210> 64
 <211> 273
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (4), (7)... (9), (14)... (16), (19), (24), (29), (38)... (39),
 (48), (61), (68), (94), (127)... (128), (131), (133), (250),
 (252), (271)

<223> unsure at all n locations

<400> 64

gttnccannnc atgnnnngnc cgnaatana acatgcanna gggaaggntc gaagcaattg 60
 ngtgaggntg ggttaaatca aacgaaccgc tacncagcta gctaggtgca caaagccgaa 120
 cggttggnag ngntctgtga aatgcttgct ttagtgccaa ggtactcatt ccaagtcact 180
 gccttacaaa ggggaggctt atttgggcc actagcttcg catgtggaca tatctocaca 240
 ttcggagggn cnctacataa atacgcactg naa 273

<210> 65

<211> 263

<212> DNA

<213> Glycine max

<400> 65

ctagtgaag ttctctagca aaagtcatgg gagaggtaga cccagcttcc atccaagacc 60
 cacaacacag gccaaagtcc tctaccatac aacctgaagc gttcctgtga tagatctctc 120
 tccaataacc aaccacacac tttcagattc atcttccatt gaaaacttag tgcaggagat 180
 agggagtgc tgcaaggagt ggggtttctt ccaagtaaca aaccatgggg tgcccctcac 240
 tctaagacaa aacattgaga tag 263

<210> 66

<211> 248

<212> DNA

<213> Glycine max

<400> 66

ctttttcttca gcccatagct tacctgattc tcacgcatgg tctcactctc aacccaacga 60
 tgatgattat gtctcattca atgatgatgc atcatcatca tcattcatac ccatcataga 120
 cctcatggat ccaaattgcca tggaacaaat aggccatgca tgtgagaaat ggggtgcttt 180
 ccaattgaag aaccatggca tacccttttg tgttattgaa gatgtagaag aagaggctaa 240
 aaggctct 248

<210> 67

<211> 260

<212> DNA

<213> Glycine max

<220>

<210> 70
 <211> 267
 <212> DNA
 <213> Glycine max

<400> 70

caagacttca actcacttca agaactccct gactcttacg cttggacaca acctgatgat 60
 gatgatcacc gtctcacaaa ttacccttcc aacaataaga ctaagaccgt tgtccccatc 120
 atcgatttga acgacccaaa tgctccaaac ctcataggcc atgcatgcaa aacatgggggt 180
 gtgttccaag tgggtgaacca tggcatcccc acgagcctct tcagtgacat tcagaggggt 240
 agtcttgctc tattctccct tcctott 267

<210> 71
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 71

ctcgttcccc tgacggtgct gatggctatg gccttgctcg catctcttcc ttcttcccca 60
 aactcatgtg gtctgaggga ttcacaattg ttggatcccc tcttgagcat tttcgtcaac 120
 tctggcccca agattaccac aaatactgtg atcccgtaa gcgctatgat gaagccatga 180
 aaaagctagt gggaaagctg atgtggctga tgttgattc tctgggtatt acaaaggaag 240
 acctgaaatg ggc 253

<210> 72
 <211> 250
 <212> DNA
 <213> Glycine max

<400> 72

aatttccatg cggtagctatg ttttctttgc aagtactagc acaaacagct agctactatt 60
 tttgaacttg tcataattag tctctaattc taattagcca tacattgaac acaccagcac 120
 accttaaagc taagtggat ttgttccaca caggtacact attccttcac tctcagaagc 180
 ctaccgagcc caccctgtgc acgttcaaca caagcaccct gacttaaact ccctacaaga 240
 actccccgag 250

<210> 73
 <211> 256

<212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (152)
 <223> unsure at all n locations
 <400> 73
 aagccatgaa aaagctagtg ggaaagctga tgtggctgat gttggattct ctgggtatta 60
 caaaggaaga cctgaaatgg gccgggtcca aaggccaatt caaaaagaca tgcgcagcct 120
 tgcaattgaa ctcttaccgc acttgctcgg anccggatcg ggccatgggt ctggccgccc 180
 acaccgactc cacccttctc acaatccttt accaaaacaa cataagcggg ttgcagggtc 240
 accgaaaagg cggcgg 256

<210> 74
 <211> 253
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (128), (130), (212), (216), (238), (240), (244)... (245),
 (248)... (249)
 <223> unsure at all n locations
 <400> 74
 gcgatatgat gaagccatga aaaagctagt gggaaagctg atgtggctga tgttggattc 60
 tctgggtatt acaaaggaag acctgaaatg ggccgggtcc aaaggccaat tcaaaaagac 120
 atgcgcancn tgcaattgaa ctcttaccgc acttgctcgg atccggatcg ggccatgggt 180
 ctggccgccc acaccgaact ccaccctctc anaatnttta ccaaaacaaa atggggngn 240
 tgcnngttna cgg 253

<210> 75
 <211> 245
 <212> DNA
 <213> Zea mays
 <400> 75
 aagaccatgg cattccgcgg aggaaggagg gcctgtgcgg gaagcatcca ggcagtgaac 60
 atcgcgtgca cagccatcgc gaggtccgtg caagagtttg cgtggacgct caaggaaggc 120
 gacgaggaca aggacgacac catccagctt acaaccaaca ggctttaccc gttgcatgtg 180

tacctcacac ctagaggaag gaaatgagca tcacatttat ttggtctctg gtctgtgagc 240
 atatg 245

<210> 76
 <211> 149
 <212> DNA
 <213> Zea mays

<400> 76

cggctcgagc aggaatacct ttatcaagaa atccaaaaag tctgcgga taagacagtt 60
 accgaggatc acctgccaga gttaccgtac ttgaacgcgg tgttccatga gaccatgagg 120
 cggcattctc cagttccatt agtgctcc 149

<210> 77
 <211> 263
 <212> DNA
 <213> Zea mays

<400> 77

aaaggttata tcaaaggagg aaatctacaa ggccactgtg gttgacatga tgatgtgtgc 60
 aattgaggtc gactggaggg atttcttccc gtacctcagc tggattccaa ataggacott 120
 cgaaacaaga gtactgacta ccgaagcgag gagaactacc gtgatgcaag cottgatcaa 180
 gcagcaaaag gaaagaattg cacgtgggga gactaggata tctacctgg acttcctgct 240
 ggcagagaat acactgactg atg 263

<210> 78
 <211> 288
 <212> DNA
 <213> Zea mays

<400> 78

aggcattgtc agcgtcacc cgtgacaaaa ctatgggtgc tacaagtgc tatggtgact 60
 tccacaaaat gattaagcgt tatatcatga cattcatgtt gggacttct gccagaaac 120
 aatttaggga cacaagaaac atgatgggtg acaacatgtt gaacactttc catacattgt 180
 tgatggatga tccaaattct cctctgaact tccgggaagt tttcaagaat gaattatttc 240
 gcttatccct gggtcaggct ttaggcgagg atgtgagttc aatctatg 288

<210> 79

<400> 79

<210>	80
<211>	263
<212>	DNA
<213>	Glycine max

<400> 80

<210>	81
<211>	276
<212>	DNA
<213>	Glycine max

<400> 81

<210>	82
<211>	245
<212>	DNA
<213>	Glycine max

<400> 82

ttgagatccg aggggagtgt tccggtgagg gaatgcgaac gaggcttatg ctggtcacgt 60
 ggctggatga atgagcagaa gaacagaatg gcttcaggaa aggaagtaaa ttgttatattt 120
 gactacctgg tatcggaagc taaagaactg actgaagatc aaatttccat gctaactctgg 180
 gagaccatta ttgagacatc tgatactaca ttagttacaa ctgaatgggc tatgtatgaa 240
 cttgc 245

<210> 83

<211> 230

<212> DNA

<213> Glycine max

<400> 83

cacagattcg agatgcatgc tatggagtcc tccacctttt cagttactgt gccgcagct 60
 gctttttcta tctctttctt cttctgcga catgcgggag cggagcagg atcactcccc 120
 ccagtaccag ctgttccagg attaccagtg attgggaatc tgctccaatt gaaggagaag 180
 aaaccttaca agaccttcac ccagatggct cacaacatg ggcccatcta 230

<210> 84

<211> 245

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (236)

<223> unsure at all n locations

<400> 84

acagattcga gatgcatgct atggagtccc tcaccttttc agttactgtg gccgcagctg 60
 cttttttctat cctctttctt ttctgcgac atgcgggagc cggagcagga tcaactcccc 120
 cagtaccagc tgttccagga ttaccagtga ttgggaatct gctccaattg aaggagaaga 180
 aaccttaca gacttcaccc agatggctca caaacatggg cccatctatt ccatcngaac 240
 cgggtg 245